

# Energy Recovery Inc. Helps Israel's Palmachim Desalination Plant Expand Capacity

Industry-leading energy devices provide a cost-effective solution to Israel's water shortage by significantly reducing energy used during desalination

SAN LEANDRO, Calif.--(BUSINESS WIRE)-- [Energy Recovery, Inc.](#) (NASDAQ: ERII), a leader in the design and development of energy recovery devices for desalination, today announced that its PX Pressure Exchanger(TM) (PX(TM)) devices have been selected for use in the expansion of Palmachim's 115,000 m<sup>3</sup>/d desalination plant, one of the largest seawater reverse osmosis (SWRO) plants in Israel. The plant was built according to a 25-year BOO (Build, Operate, Own) tender by the Via Maris Desalination Consortium (a partnership between Granite Hacarmel Investments, Tahal Group, Ocif and Metco) and is now expanding its capacity to 144,000 m<sup>3</sup> (38.05 million U.S. gallons) per day.

"Using ERI's PX energy recovery devices allows us to efficiently provide more drinking water while being mindful of the associated costs," said Igal Hanegby, general manager at Via Maris. "ERI's technology allows us to easily expand and increase our water production over time, which was of the utmost importance to us. ERI truly understands the challenges its customers face, and worked very closely with us to provide a sound retrofit design for the plant upgrade, understanding the current water shortage conditions in Israel."

Years of drought in Israel have caused a cumulative deficit in Israel's renewable water resources by approximately 2 billion m<sup>3</sup> (528.3 billion gallons), causing a severe strain on the agricultural sector of Israel. To cost-effectively address this deficit, large SWRO plants in Ashdod and Soreq are in a tender phase and an expansion of the existing plants in Ashkelon, Palmachim and Hadera are being implemented in the country. ERI's technology significantly conserves energy consumption during desalination and by the year 2013, will help to produce approximately 1,500,000 m<sup>3</sup> (396 million gallons) per day, bringing fresh water to about 5.5 million people throughout Israel.

"The adoption of ERI's PX devices at desalination plants in Hadera and now Palmachim validate the significant cost and environmental benefits provided by isobaric energy recovery devices," said Borja Blanco, senior vice president of ERI. "Seawater desalination is only a viable solution to a water crisis, if costs and energy use can be kept down, and the continued roll-out of ERI's PX devices at plants throughout Israel demonstrates the tremendous impact the technology has on the bottom line. We look forward to continuing to work with Palmachim and other plants in Israel to provide seawater desalination solutions that are both cost-conscious and energy efficient."

ERI's PX devices improve the energy efficiency of SWRO by up to 60 percent, making desalination a cost-effective solution for clean water supply. PX devices also reduce the

carbon footprint of desalination, saving more than 700 MW of energy and reducing CO<sub>2</sub> emissions by more than 2.3 million tons per year worldwide. More than 6,700 PX devices are currently deployed or under contract to be installed at desalination plants across the globe. For more information about ERI's PX Pressure Exchanger, visit <http://www.energyrecovery.com/> or send an email to [info@energyrecovery.com](mailto:info@energyrecovery.com).

#### About ERI

Energy Recovery, Inc. (NASDAQ:ERII) designs and develops energy recovery devices that help make desalination affordable by significantly reducing energy consumption. ERI's PX Pressure Exchanger(TM) (PX(TM)) device is a rotary positive displacement pump that recovers energy from the high pressure reject stream of seawater reverse osmosis systems at up to 98% efficiency. The company is headquartered in the San Francisco Bay Area with offices in key desalination centers worldwide, including Madrid, Shanghai, Florida and the United Arab Emirates. For more information on ERI and PX technology, please visit [www.energyrecovery.com](http://www.energyrecovery.com).

Source: Energy Recovery, Inc.